

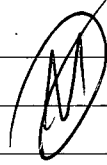
Work Order ID 163677

163677

Page 1

Wednesday, July 05, 2017 3:19:19 PM

Item ID: 646.4001 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: AS350 Cable Cutter System
 Start Date: 7/17/2017 Start Qty: 1.00 *1* Cust Item ID:
 Required Date: 7/24/2017 Req'd Qty: 1.00 *1* Customer:
 Reference:

Approvals: Process Plan:  Date: JUL 05 2017 Tooling: Date: Run Start *NR1*
 QC: Date: SPC (Y/N): Date: Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
646.4000	C1								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.03							
Quality Control									

DAS
6
JUL 10 2017

DAS
27
9-89
JUL 17 2017

DAS
6
JUL 12 2017
9-89
DAS
28
9-89

DAS
27
9-89
JUL 16 2017

Work Order ID 163677

Wednesday, July 05, 2017 3:19:19 PM

163677

Page 2

Item ID: 646.4001**Accept*****N900040100*****Setup Start *NS1*****Revision ID:****Stop *NS2*****Item Name:** AS350 Cable Cutter System**Start Date:** 7/17/2017 **Start Qty:** 1.00 ***1*****Cust Item ID:****Required Date:** 7/24/2017 **Req'd Qty:** 1.00 ***1*****Customer:****Reference:****Approvals:** **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____**Run Start *NR1*****QC:** _____ **Date:** _____ **SPC (Y/N):** _____ **Date:** _____**Stop *NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* Packaging	Identify as per dwg & Stock Location: _____ Packaging	0.00						DAS 28 9-89	JUL 17 2017
Packaging	Memo Identify and pack for shipping as per PPP 646.4001 Location: Fg 101	0.00							
140 *140* QC	QC21- Final Inspection - Work Order Release	0.00							
Quality Control	Memo	0.10							17/7/18

JUL 17 2017

JUL 17 2017

Picklist Print

Wednesday, July 05, 2017 3:19:16 PM

Page 1

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM IPP
REV:C 16.01.07 AS PER DWG REV.C DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

600.0129		Purchased	No			100	f	232.0000	8	8			
600 0129 VHB TAPE 75935A651													

Location	Loc Qty	Loc Code
CCK096	232	
m135867	16	
m137700	216	

600.0990		Purchased	No			100	Each	29.0000	1	1			
600 0990 Magnabond 6398 Part A Size 112 ml													

Location	Loc Qty	Loc Code
PKG	29	
M136586	1	
M136862	1	
M137073	6	
M137495	10	
M137712	11	

DAS
27
9-89
exp. 2/01/2018

JUL 12 2017
DAS 28
9-89

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval				
Description Work Order Deviation				Disposition				Completed By			
Root Cause				FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
OTHER : ☐											

Picklist Print

Wednesday, July 05, 2017 3:19:16 PM

Page 2

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

600.0991 Purchased No

100 Each 30.0000 1 1

600 0991

Magnabond 6398 Part B Size 112 ml

**

DAS
28
9-89

Location

Loc Qty

Loc Code

PKG

30

m136586

2

m136862

1

m137073

6

m137495

10

m137712

11

m134249

0

1/1/2017

600.1012 Purchased No

100 Each 18.0000 1 1

600 1012

Sealant PR1425B2 (#654 sem)

**

DAS
28
9-89

Location

Loc Qty

Loc Code

cck017

18

m137371

4

m137699

14

600.1013 Purchased No

100 Each 75.0000 5 5

600 1013

021200-3M TAPE PRIMER 94 PRIMER 24216

**

DAS
6
9-89

DAS
2
9-89

Location

Loc Qty

Loc Code

CCK096

75

m137150

25

m137500

50

646.2910 Manufactured No

100 Each 9.0000 1 1

646 2910

Deflector

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK050

9

155356

3

160183

6

DAS
27
9-89

JUL 12 2017

Wednesday, July 05, 2017 3:19:16 PM

Shop Packet Print

Page 2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition			Completed By																		
							Lead hand / Supervisor Approval Verification																		
							QC / QA Coordinator Approval																		
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐																			

Picklist Print

Wednesday, July 05, 2017 3:19:16 PM

Page 3

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

646.3001 Manufactured No

100 Each 5.0000 1 1

646 3001

Lower Cable Cutter Assembly

DAS
27
9-89

Location

Loc Qty

Loc Code

cck023

5

162252

3

2/8/2019

161804

2

4/21/2019

JUL 12 2017
DAS 28
9-89

646.3110 Manufactured No

100 Each 1.0000 1 1

646 3110

Channel

DAS
27
9-89

Location

Loc Qty

Loc Code

cck020

1

159544

1

162250

JUL 12 2017
DAS 28
9-89

646.3210 Manufactured No

100 Each 5.0000 1 1

646 3210

Support

DAS
27
9-89

Location

Loc Qty

Loc Code

cck020

5

157802

5

JUL 12 2017
DAS 28
9-89

646.3301 Manufactured No

100 Each 8.0000 1 1

646 3301

Upper Cutter Assembly

DAS
27
9-89

Location

Loc Qty

Loc Code

cck018

8

159679

4

4/10/2018

160062

4

2/12/2019

JUL 12 2017
DAS 28
9-89



Work Order update only

Work Order: _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS														
Part No. _____				Skid-tube ☐	Machining ☐	Thermoforming ☐	Large Fab ☐	Cross tube ☐	Small Fab ☐	Finishing ☐	Composite ☐	Water Jet ☐	Prod. Eng. Coord. ☐	Rec/Store/Packaging ☐	Supplier ☐	Engineering ☐	Quality ☐	Other ☐
NCR No. _____																		
Date: _____		Step #: _____			QTY Effective: _____								MRB (QS1042) Approval					
Description Work Order Deviation					Disposition										Completed By			
															Lead hand / Supervisor Approval Verification			
															QC / QA Coordinator Approval			
Root Cause ☐ Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due					FAULT CATEGORY ☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence													
OTHER: _____																		

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐				Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐				Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐				Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐											
		OTHER : _____																							

Picklist Print

Wednesday, July 05, 2017 3:19:16 PM

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

646.3711 Manufactured No

100 Each 7.0000 1 1

646 3711

Clip

**

JUL 12 2017

DAS

6

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck104

7

156840

1

159504

6

646.3712 Manufactured No

100 Each 33.0000 1 1

646 3712

Clip

**

JUL 12 2017

DAS

6

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck104

33

156884

3

159863

30

646.3713 Manufactured No

100 Each 31.0000 1 1

646 3713

Gusset

**

JUL 12 2017

DAS

6

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

31

156776

3

159851

28

646.3714 Manufactured No

100 Each 31.0000 1 1

646 3714

Gusset

**

JUL 12 2017

DAS

6

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

31

156761

3

159846

28

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

Wednesday, July 05, 2017 3:19:17 PM

Page 6

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

646.3715	Manufactured	No	100	Each	59.0000	2	2	DAS 6 9-89	DAS 28 9-89
646 3715									
Strut Doubler									
DAS 27 9-89									
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
			cck105	59					
			159860	59					
646.3716	Manufactured	No	100	Each	2.0000	1	1	DAS 6 9-89	DAS 28 9-89
646 3716									
Gauge Bracket									
DAS 27 9-89									
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
			cck105	2					
			156773	2					
646.3717	Manufactured	No	100	Each	4.0000	1	1	DAS 6 9-89	DAS 28 9-89
646 3717									
Doubler									
DAS 27 9-89									
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
			cck105	4					
			157774	4					
646.3718	Manufactured	No	100	Each	18.0000	2	2	DAS 6 9-89	DAS 28 9-89
646 3718									
Custom Washer									
DAS 27 9-89									
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
			cck105	18					
			159350	18					
646.3719	Manufactured	No	100	Each	21.0000	2	2	DAS 6 9-89	DAS 28 9-89
646 3719									
Doubler									
DAS 27 9-89									
			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>				
			cck105	21					
			159348	21					

Wednesday, July 05, 2017 3:19:17 PM

Shop Packet Print

Page 6

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
7.8.8.1.14 7.8.8.1.14				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Wednesday, July 05, 2017 3:19:17 PM

Page 7

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

646.3810 Manufactured No

100

Each

11.0000

2

2

646 3810

Bracket

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK106

11

160379

11

JUL 12 2017

DAS
6
9-89
DAS
28
9-89

646.3811 Manufactured No

100

Each

8.0000

1

1

646 3811

Radius Block

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK106

8

160090

8

JUL 12 2017

DAS
6
9-89
DAS
28
9-89

646.3812 Manufactured No

100

Each

24.0000

2

2

646 3812

Gusset Bracket

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK106

9

159539

9

CCK108A

15

160378

15

JUL 12 2017

DAS
6
9-89
DAS
28
9-89

646.3813 Manufactured No

100

Each

9.0000

1

1

646 3813

AS350 Strut Bracket

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK106

9

157787

4

159545

5

JUL 12 2017

DAS
6
9-89
DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date: _____	Step #: _____	QTY Effective : _____		MRB (QS1042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Wednesday, July 05, 2017 3:19:17 PM

Page 8

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

646.3910	Manufactured	No	100	Each	36.0000	4	4	
646 3910								
Shim								

			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			CCK106	36				
			159854	36				
646.3911	Manufactured	No		100	Each	23.0000	1	1
646 3911								
Shim								

			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			CCK106	23				
			126229	2				
			159862	21				
646.3912	Manufactured	No		100	Each	57.0000	4	4
646 3912								
Shim								

			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			CCK106	57				
			159357	7				
			159793	20				
			161802	10				
			162501	20				
646.3913	Manufactured	No		100	Each	41.0000	1	1
646 3913								
Shim								

			<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>			
			CCK106	41				
			126060	41				

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
FORM S A 101								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

Wednesday, July 05, 2017 3:19:17 PM

Page 9

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

646.9410

Manufactured No

100

Each

50.0000

1

1

646 9410

Shim

**

JUL 12 2017 DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck011

50

140671

50

Manufactured No

100

Each

66.0000

2

2

647 0112

Strut Bracket

**

JUL 12 2017 DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK106

66

159844

21

161667

45

647.7703

Manufactured No

100

Each

15.0000

2

2

647 7703

Strut Assembly

**

JUL 12 2017

DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK114

15

159680

1

160493

14

650.9201

Manufactured No

100

Each

18.0000

2

2

650 9201

Eyelet Bracket Assembly

**

JUL 12 2017

DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck127

18

156828

8

157798

10

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only

Work Order:		DISPOSITION		AGAINST DEPARTMENT/PROCESS															
		Rework		Skid-tube		Cross tube		Water Jet		Engineering									
Part No.		Scrap		Machining		Small Fab		Prod. Eng. Coord.		Quality									
		Use-as-is		Thermoforming		Finishing		Rec/Store/Packaging		Other									
NCR No.		Suspected Unapproved		Large Fab		Composite		Supplier											
Date :	Step #:	QTY Effective :			MRB (QS1042) Approval														
Description Work Order Deviation				Disposition															
												Completed By							
												Lead hand / Supervisor Approval Verification							
				QC / QA Coordinator Approval															
Root Cause				FAULT CATEGORY															
Environment		No Re-verification		Pressure/Forced		Temperature/Cure		Power Loss/Surge		Positioned Wrong									
Design		Operator		Bending		Set-up		Folio/Program		Outside Dimensions									
Doc/Data		Offset/Setups		Centre Not Concentric		BOM/Route		Grain		Over/Under tolerance									
Equip/Tooling		Supplier		Cracks		Broken/Damage/Defect		Weld		Part Incorrect									
Handling/Pre		Training		Crimp/Kink/Ripple/Wave		Inspection Incomplete/Unqualified		Wrong Stock Pulled		Part Lost/Missing									
Material		Use for Testing		Cuffs		Contamination		Out of Sequence		Part Moved									
Internal Transport		Poor Information		Crushing		Countersink		Off-set		Drawing									
Tribal Knowledge		Rushing		Heat Treat		Cut Too Short		Mislabeled		Finish									
LOA		Product Improvement		Wave/Twist in Tube		Instructions Incomplete/Unclear		Fit/Function		Misread									
Substation		Process Improvement		Marks/Chatter		Drill Holes		Misaligned/off center		Turning Sequence									
Past Expiry Date		Manufacturing Process																	
Misidentified		Past Due		OTHER :															

Picklist Print

Wednesday, July 05, 2017 3:19:17 PM

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

AN3-11A Purchased No 100 Each 146.0000 10 10

AN3-11A

Bolt

**

DAS 28
6 JUL 12 2017 9-89

DAS 27
9-89

Location	Loc Qty	Loc Code
over003	100	
m136192	100	
ST349	46	
153855	46	

AN3-12A Purchased No 100 Each 174.0000 2 2

AN3-12A

Bolt

**

DAS 28
6 JUL 12 2017 9-89

DAS 27
9-89

Location	Loc Qty	Loc Code
ST349	174	
153854	174	

AN3-13A Purchased No 100 Each 56.0000 1 1

AN3-13A

Bolt

**

DAS 28
6 JUL 12 2017 9-89

DAS 27
9-89

Location	Loc Qty	Loc Code
GA	11	
m127070	11	
ST349	45	
m137886	45	

AN316C4R Purchased No 100 Each 47.0000 2 2

AN316C4R

Nut, Jam

**

DAS 28
6 JUL 12 2017 9-89

DAS 27
9-89

Location	Loc Qty	Loc Code
ST331	47	
m137736	47	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date : _____		Step #: _____		QTY Effective : _____			MRB (QS1042) Approval				
Description Work Order Deviation				Disposition				Completed By			
Root Cause				FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
OTHER : _____											

Picklist Print

Wednesday, July 05, 2017 3:19:17 PM

Page 11

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

AN3-3A	Purchased	No	100	Each	105.0000	4	4
--------	-----------	----	-----	------	----------	---	---

AN3-3A

Bolt

**

Location

Loc Qty

Loc Code

ST350

105

m137597

55

m137853

50

DAS
27

9-89

DAS
6
9-89

JUL 12 2017

DAS
28
9-89

AN3-4A	Purchased	No	100	Each	208.0000	10	10
--------	-----------	----	-----	------	----------	----	----

AN3-4A

Bolt

**

Location

Loc Qty

Loc Code

ST350

208

m137478

208

DAS
27
9-89

DAS
6
9-89

JUL 12 2017

DAS
28
9-89

AN3-5A	Purchased	No	100	Each	137.0000	2	2
--------	-----------	----	-----	------	----------	---	---

AN3-5A

Bolt

**

Location

Loc Qty

Loc Code

FP001

6

m136986

6

ST350

131

m136986

131

DAS
27
9-89

DAS
6
9-89

JUL 12 2017

DAS
28
9-89

AN3-6A	Purchased	No	100	Each	140.0000	2	2
--------	-----------	----	-----	------	----------	---	---

AN3-6A

Bolt

**

Location

Loc Qty

Loc Code

ST350

140

m137412

140

DAS
27
9-89

DAS
6
9-89

JUL 12 2017

DAS
28
9-89

Picklist Print

Wednesday, July 05, 2017 3:19:17 PM

Page 12

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

AN44-5A Purchased No

100 Each 26.0000 2 2

AN44-5A

Eyebolt

**

DAS 6 28
9-89 JUL 12 2017 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST339

26

m137507

11

m137710

15

AN4C7A Purchased No

100 Each 79.0000 2 2

AN4C7A

BOLT

**

DAS 6 28
9-89 JUL 12 2017 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST345

79

m136295

4

m137361

75

AN665-34R Purchased No

100 Each 28.0000 2 2

AN665-34R

Clevis

**

DAS 6 28
9-89 JUL 12 2017 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST330

28

m137710

28

CCR264SS3-02 Purchased No

100 Each 381.0000 36 36

CCR264SS3-02

Cherry Rivet

**

DAS 6 28
9-89 JUL 12 2017 9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST321

381

M137710

381

Picklist Print

Wednesday, July 05, 2017 3:19:18 PM

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

CR3213-5-3 Purchased No

100 Each 198.0000 14 14

CR3213-5-3

Cherry Rivet

** 7 DAS 6 9-89 JUL 12 2017 DAS 28 9-89

DAS 27 9-89

Location	Loc Qty	Loc Code
CCK003	100	
m137736	100	
ST319	98	
m137320	58	
m137391	40	

MS20426AD5-7 Purchased No

100 Each 1,352.000 2 2

MS20426AD5-7

RIVET

** 1 DAS 6 9-89 JUL 12 2017 DAS 28 9-89

DAS 27 9-89

Location	Loc Qty	Loc Code
CCK004	703	
153848	703	
ST311	649	
M133922	649	

MS20470AD5-5.5 Purchased No

100 Each 614.0000 8 8

MS20470AD5-5 5

Rivet

** DAS 6 9-89 JUL 12 2017 DAS 28 9-89

DAS 27 9-89

Location	Loc Qty	Loc Code
ST309	614	
m134063	614	

MS20470AD5-6 Purchased No

100 Each 504.0000 8 8

MS20470AD5-6

RIVET

** DAS 6 9-89 JUL 12 2017 DAS 28 9-89

DAS 27 9-89

Location	Loc Qty	Loc Code
ST309	504	
124089	504	

Picklist Print

Wednesday, July 05, 2017 3:19:18 PM

Page 14

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

MS20470AD5-7

Purchased

No

100

Each

335.0000

3 3

DAS

6

9-89

JUL 12 2017

DAS

28

9-89

MS20470AD5-7

Rivet

DAS

27

9-89

Location

ST309

Loc Qty

335

335

Loc Code

123425

MS21042-08

MS21042L08

Purchased

No

100

Each

0.0000

2 2

DAS

6

9-89

JUL 12 2017

DAS

28

9-89

MS21042-08

USE MS21042L08

MS21042-3

MS21042L3

Purchased

No

100

Each

0.0000

2 2

DAS

6

9-89

JUL 12 2017

DAS

28

9-89

MS21042-3

Nut

DAS

27

9-89

Location

FP001

Loc Qty

79

79

Loc Code

m135945

GA

394

m134360

102

M136665

292

ST303

906

m137680

406

m137886

500

MS21042L3

Nut

DAS

27

9-89

DAS

6

9-89

JUL 12 2017

DAS

28

9-89

Picklist Print

Wednesday, July 05, 2017 3:19:18 PM

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

100

Each

1,899.000

2

2

MS21042L4

Nut

**

JUL 12 2017

DAS

6

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

FP001

10

m133363

10

GA

51

m135058

51

OVER007

1000

m137680

1000

ST303

838

m137402

400

m137544

438

2

MS21047-3

Purchased

No

100

Each

183.0000

18

18

MS21047-3

Nut Plate

**

JUL 12 2017

DAS

6

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST301

183

m137459

83

m137710

100

18

MS24693-C278

Purchased

No

100

Each

100.0000

5

5

MS24693-C278

Screw

**

JUL 12 2017

DAS

6

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST287

100

m137680

100

5

Picklist Print

Wednesday, July 05, 2017 3:19:18 PM

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

MS24694-S51

Purchased

No

100

Each

220.0000

5

5

JUL 12 2017

MS24694-S51

Screw

**

DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST284

220

m136866

220

MS24694-S54

Purchased

No

100

Each

146.0000

2

2

JUL 12 2017

MS24694-S54

SCREW

**

DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST284

146

153846

46

m137951

100

MS24694-S55

Purchased

No

100

Each

260.0000

3

3

JUL 12 2017

MS24694-S55

Screw

**

DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST283

260

153847

160

m137951

100

MS27039-08-13

Purchased

No

100

Each

257.0000

2

2

MS27039-08-13

Screw

**

JUL 12 2017 DAS
6
9-89

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST278

257

153849

257

Picklist Print

Page 17

Wednesday, July 05, 2017 3:19:18 PM

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

100

Each

170.0000

2

2

MS27039-1-10

SCREW

**

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

15

m129541

15

over006

119

m137736

119

ST280

36

m137164

6

m137597

30

JUL 12 2017

DAS
28
9-89

MS27039-1-12

Purchased

No

100

Each

107.0000

6

6

MS27039-1-12

Screw

**

DAS
27
9-89

Location

Loc Qty

Loc Code

ST280

107

m137320

15

m137736

92

JUL 12 2017

DAS
28
9-89

MS27039-1-16

Purchased

No

100

Each

147.0000

24

24

MS27039-1-16

Screw

**

DAS
27
9-89

Location

Loc Qty

Loc Code

over006

50

m137061

50

ST280

97

m137320

19

m137736

78

JUL 12 2017

DAS
28
9-89

Picklist Print

Wednesday, July 05, 2017 3:19:18 PM

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-19

Purchased

No

100

Each

283.0000

22

22

MS27039-1-19

Screw

**

JUL 12 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

80

m134134

80

ST280

203

m137361

203

MS27039-1-20

Purchased

No

100

Each

57.0000

2

2

MS27039-1-20

Screw

**

JUL 12 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST280

57

m136554

57

MS27039-1-21

Purchased

No

100

Each

115.0000

4

4

MS27039-1-21

Screw

**

JUL 12 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST280

115

m127904

115

NAS1149F0332P

Purchased

No

100

Each

2,204.0000

144

144

NAS1149F0332P

Washer

**

JUL 12 2017

DAS
28
9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

275

m133709

275

ST262

1929

m137710

1929

Picklist Print

Wednesday, July 05, 2017 3:19:18 PM

Page 19

Work Order ID: 163677

163677

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017

Required Date: 7/24/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0363P

Purchased

No

100

Each

226.0000

2

2

NAS1149F0363P

WASHER

**

JUL 12 2017

DAS

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST262

226

~~124555~~

26

m137544

200

NAS1149F0432P

Purchased

No

100

Each

1,085.000

4

4

NAS1149F0432P

WASHER

**

JUL 12 2017

DAS

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

ST260a

1000

M137412

1000

ST262

85

M137361

85

NAS1149FN832P

Purchased

No

100

Each

2,530.000

4

4

NAS1149FN832P

Washer

**

JUL 12 2017

DAS

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

GA

358

M135058

208

M136182

40

M136866

110

ST260a

1500

M137820

1500

ST263

672

M137412

672



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

05304

SHEET 1 OF 1

DWG NO. 646.4000

REV: C

PREPARED
BY

J. BECKER

DATE: 02/04/16

EFFECT ON DWG

☐ INC. ☒ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY:

ENGR.

MFG

QC

EFF.

NEXT ORDER

TRANSACTION CODES (TC):

A-ADD
R-REVISE

C-CREATE
D-DELETE

REASON: REVISED F/N 12.

ECR:

N/A

ACTION ITEM:

1. N/A

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 163677
JUL 05 2017

SHEET 1, BOM IS:

12	R	601.1624	8	16	LOCKNUT	MS21042L3	
F/N	TC	PART NUMBER	4006	4005	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY				
DOCUMENTS EFFECTED:					CHANGE CATEGORY	DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM					☐ MAJOR ☒ MINOR	☐ YES ☒ NO	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

NOTES:

1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.

2 INSTALL F/N 14 WITH F/N 52 & 53.

3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMASTER-CARR P/N 75935A651.

4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.

5 REUSE FASTENERS FROM F/N 1.

6 USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.

7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.

8 INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.

9 NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

UNINCORPORATED ECN(S)

05304

	5		5	78	601.3875	SCREW	HA511491N832P	
	1		1	77	646.9410	SHIM	HA511491N832P	
			4	4	76	601.2764	WASHER	MS21042-08
			2	2	75	601.2973	LOCKNUT	MS27039-0813
			2	2	74	601.2988	SCREW	MS21042-3
			2	2	73	601.2943	LOCKNUT	AN316C4R
			2	2	72	601.3128	NUT	MS21042L4
			2	2	71	601.3209	LOCKNUT	HA511491N832P
			4	4	70	601.2638	WASHER	AN4C7A
			2	2	69	601.2669	BOLT	AN665-34R
			2	2	68	601.3119	CLEVIS	AN44-5A
			2	2	67	601.3121	EYE BOLT	
			2	2	66	650.9201	EYE BRACKET ASSY	
		REF	REF	REF	65	647.5701	GPS MOUNT KIT	HA511491N832P
				2	64	601.3151	WASHER	MS2449453
			2		63	601.2911	SCREW	MS27039-1-16
		24		24	62	601.2637	SCREW	AN3-12A
		2		2	61	601.2763	BOLT	
		1		1	60	646.3913	SHIM	
		4		4	59	646.3912	SHIM	
		1		1	58	646.3911	SHIM	
		4		4	57	646.3910	SHIM	
		5		5	56	600.1013	PRIMER	
		8 FT		8 FT	55	600.0129	VHB TAPE	
		1		1	54	600.1012	SEALANT	PR-1475 CLASS B
		1		1	53	600.0991	MAGNOBOND 639B PART B	HA511491N832P
		1		1	52	600.0990	MAGNOBOND 639B PART A	
		6		10	51	601.2826	BOLT	AN3-11A
				2	50	646.3814	WIPER BRACKET	
				2	49	601.2910	SCREW	MS27039-1-18
		2		2	48	601.1365	SCREW	MS27039-1-10
		2		2	47	646.3719	DOUBLER	
		2		2	46	646.3718	CUSTOM WASHER	
		1		1	45	646.3717	DOUBLER	
		22		22	44	601.1948	SCREW	MS27039-1-19
		2		2	43	601.1952	SCREW	MS27039-1-20
		4		4	42	601.1956	SCREW	MS27039-1-21

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECN(S) 02119, 02351, 02719 & 02765	02/08/2010	P. BRAVO
B	INCORPORATED ECN(S) 02046, 02077 & 04731	11/04/2014	P. BRAVO
C	INCORPORATED ECN(S) 05008	09/09/2015	P. BRAVO

		2		2	41	601.2829	SCREW	MS2449453A	
		2		2	40	601.2831	RIVET	MS20426A05-7	
		1		1	39	646.3716	GAUGE BRACKET		
		6		6	38	601.1953	SCREW	MS27039-1-12	
	2	2		2	37	646.3715	STRUT DOUBLER		
	2	2		2	36	601.2824	BOLT	AN3-5A	
12	36			36	35	601.2277	RIVET	CCP44353-02	
6	18			18	34	600.0795	NUTPLATE	MS21047-3	
3	3			3	33	601.2565	RIVET	MS20470A05-7	
1	1			1	32	646.3813	STRUT BRACKET		
4	4			4	31	601.2822	BOLT	AN3-3A	
2	2			2	30	646.3812	GUSSET BRACKET		
8	8			8	29	601.2564	RIVET	MS20470A05-6	
1	1			1	28	646.3714	GUSSET		
	1	1		1	27	646.3610	FILLER		
	3	3		3	26	601.2830	SCREW	MS24494535	
	2	2		2	25	601.2825	BOLT	AN3-6A	
	1	1		1	24	646.3811	RADIUS BLOCK		
	1	1		1	23	646.3712	CLIP		
	1	1		1	22	646.3711	CLIP		
8		8		8	21	601.2832	RIVET	MS20470A05-5	
14		14		14	20	601.2020	RIVET	CK3213-5-3	
4	6	4	6	10	19	601.2823	BOLT	AN3-4A	
	1	1	1	1	18	601.2827	BOLT	AN3-13A	
	5		5	5	17	601.2912	SCREW	MS24494531	
1		1		1	16	646.3713	GUSSET		
1		1		1	15	646.3210	SUPPORT		
		1		1	14	646.3710	DOUBLER		
	1		1	1	13	646.3110	CHANNEL		
14	10	8	53	6	61	12	601.1624	LOCKNUT	MS21042L3
16	32	18	120	16	144	11	601.1607	WASHER	HA511491N832P
					10	646.3410	LH WIPER DEFLECTOR		
				1	9	646.3411	RH WIPER DEFLECTOR		
				2	8	647.7703	STRUT ASSY		
				2	7	647.0112	STRUT BRACKET		
	1		1	1	6	646.3511	STRUT		
	1		1	1	5	646.3510	STRUT		
2		2		2	4	646.3810	BRACKET		
			1	1	3	646.2910	DEFLECTOR		
	1		1	1	2	646.3001	LOWER CUTTER ASSY		
			1	1	1	646.3301	UPPER CUTTER ASSY		
X						646.4006	LOWER CUTTER FIRED PROVISIONS		
	X					646.4005	LOWER CUTTER REMOVABLE PROVISIONS		
		X				646.4004	FIXED PROVISIONS KIT		
			X			646.4003	CABLE CUTTERS KIT WITHOUT FIXED PROVISIONS		
				X		646.4002	AS350 WIPER DEFLECTOR KIT		
					X	646.4001	AS350 CABLE CUTTERS KIT		
4006	4005	4004	4003	4002	4001	FIND #	DESCRIPTION	MATL	SPEC.

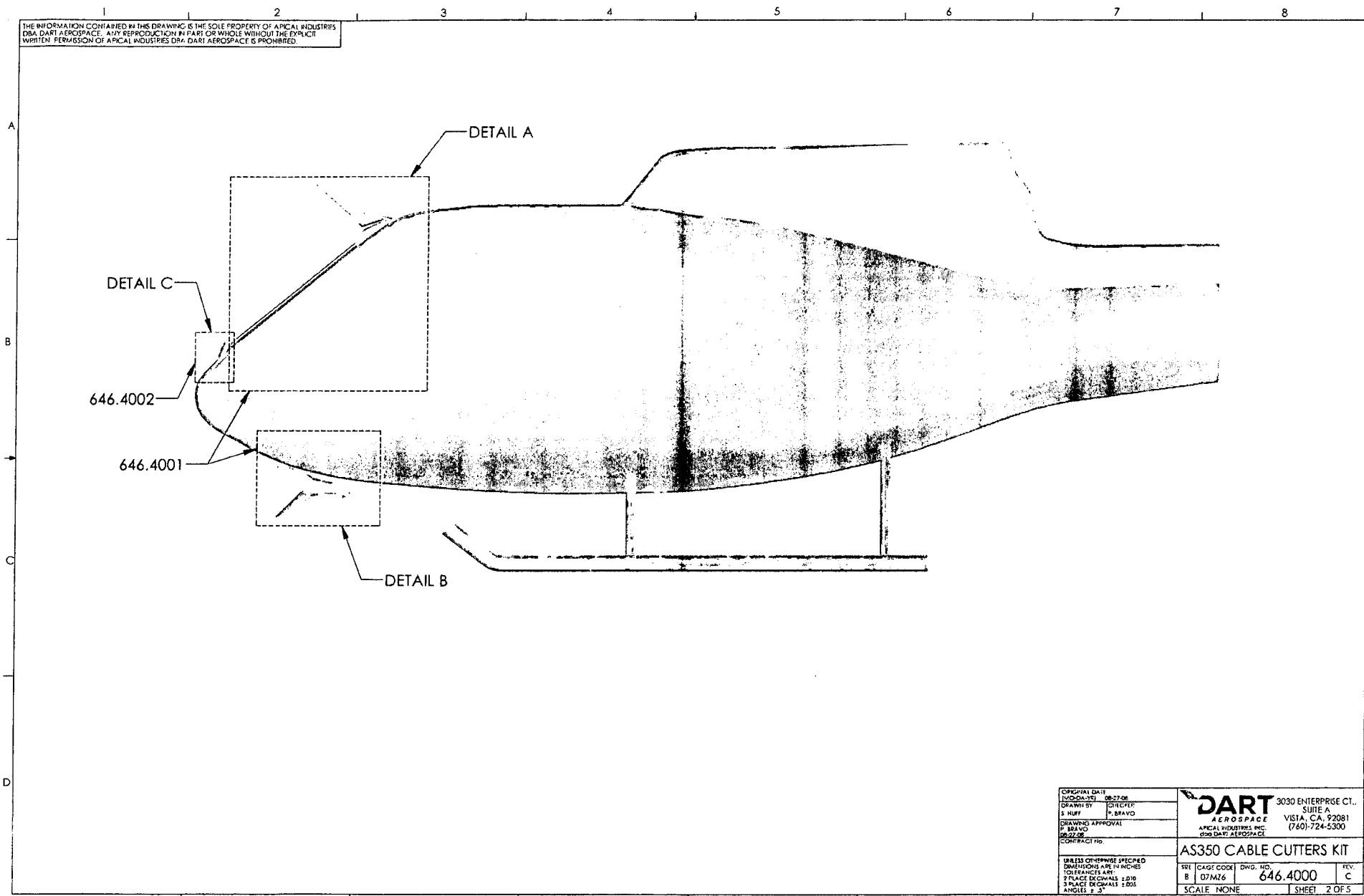
QTY		PARTS LIST	
NEXT ASSY (S)		ORIGINAL DATE (DD-MY-YY) 08-27-08	
		DRAWN BY CHICLUP	
		S. HUFF	
		DESIGNED BY P. BRAVO	
		P. BRAVO	
		08/27/08	
		COURTESY NO.	
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
		TOLERANCES ARE	
		FRACTIONS DECIMALS ±.010	
		3 PLACE DECIMALS ±.005	
		INCHES ±.005	
		SCALE NONE	
		SHEET 1 OF 5	

DART 3000 ENTERPRISE CT.
AEROSPACE SUITE A
APICAL INDUSTRIES, INC.
VISTA, CA 92081
(760)-724-5300

AS350 CABLE CUTTERS KIT

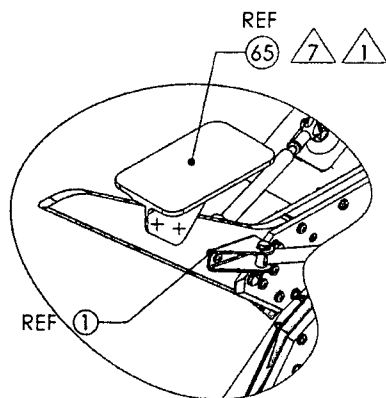
SRI B 07M16 646.4000 C

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES
DRA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT
WRITTEN PERMISSION OF APICAL INDUSTRIES DRA DART AEROSPACE IS PROHIBITED.

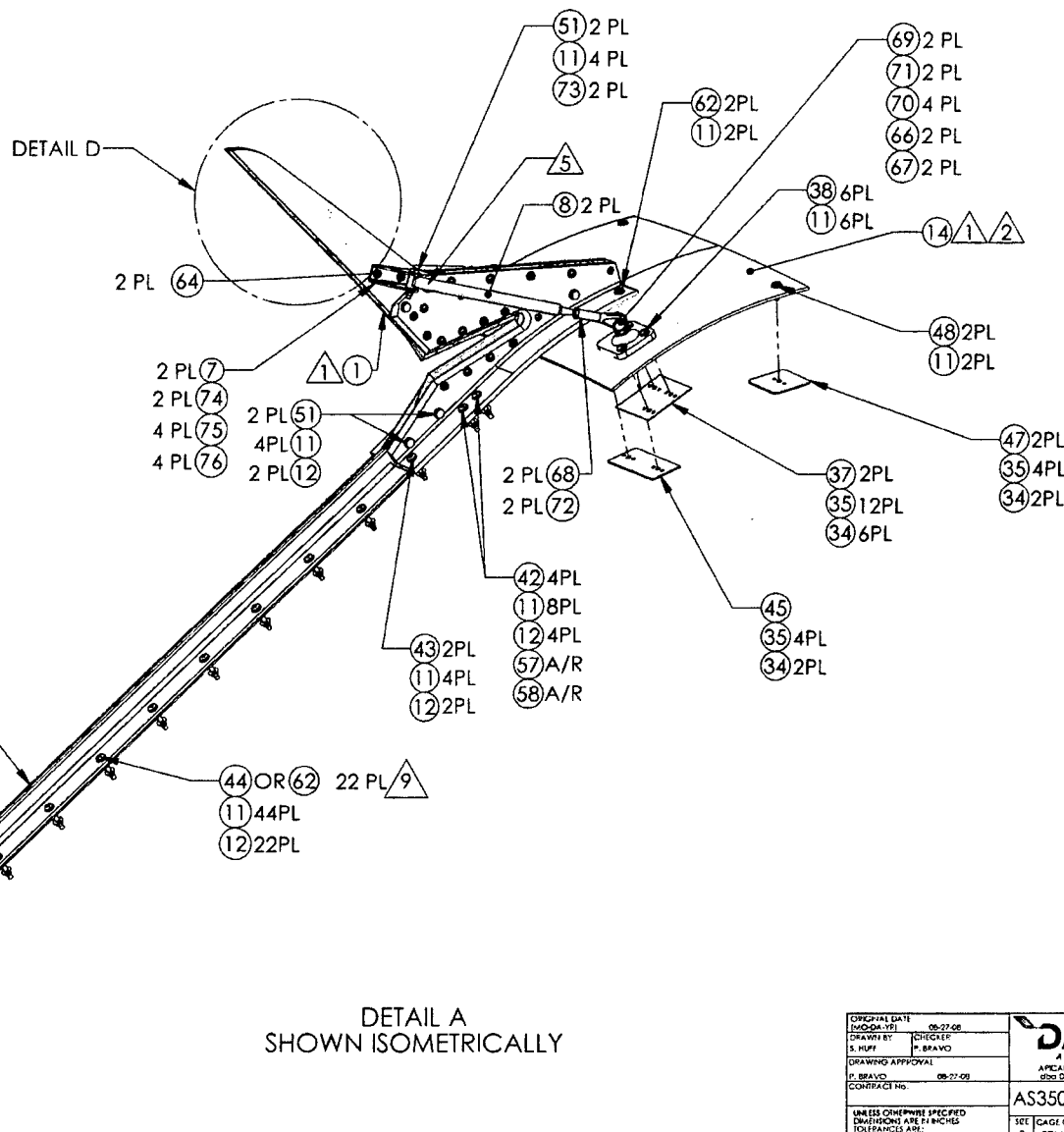


ORIGINAL DATE 1/10/04-1/11/04		08-27-06	
DRAWN BY S. HUFF		CHECKED BY M. BRAVO	
DRAWING APPROVAL P. BRAVO		08-27-06	
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
DART AEROSPACE APICAL INDUSTRIES INC. 4000 DART AEROSPACE		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
AS350 CABLE CUTTERS KIT			
REV	CAGE CODE	DWG. NO.	REV.
B	D7M26	646.4000	C
SCALE: NONE		SHEET 2 OF 5	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



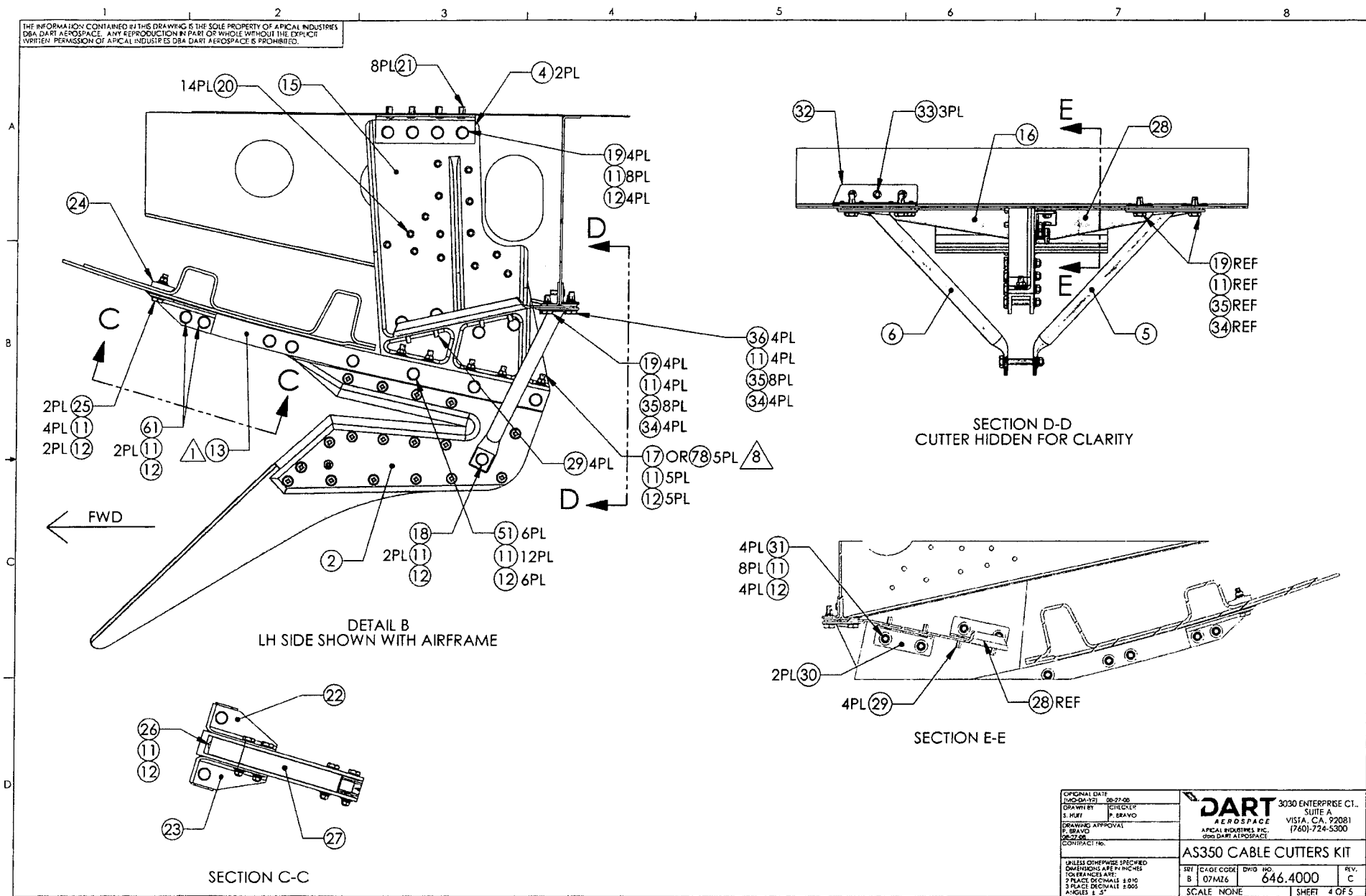
DETAIL D TYPICAL GPS MOUNT KIT INSTALLATION



DETAIL A
SHOWN ISOMETRICALLY

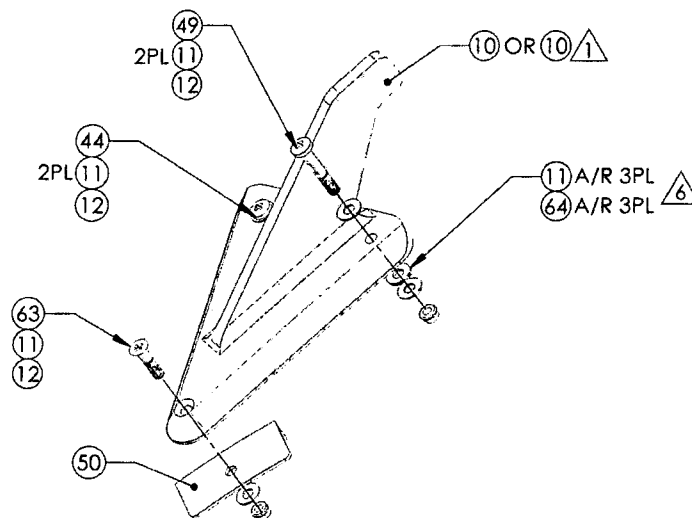
OFFICIAL DATE (M/D/Y)	06-27-08	 3030 ENTERPRISE CT. SUITE A VISTA, CA 92081 (760) 774-3300 APICAL INDUSTRIES INC. ART DART Aerospace	
DRAWN BY	CHITCHEL		
S. NAME	PI BRAND		
DRAWING APPROVAL			
P. BRAND	06-27-08		
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .005 3 PLACE DECIMALS ± .001 ANGLES ± .1°			
AS350 AIRCRAFT CUTTERS KIT			
SEC	CAGE CODE	DWG NO.	REV.
	07N26	646.4000	
SCALE NM/F			SHEET 3 OF 5

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



OPTIONAL DATE (UNLESS OTHERWISE SPECIFIED)	08-27-06	3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300
DRAWN BY S. HUFF	CHECKED BY P. BRAYO	
DRAWING APPROVAL P. BRAYO	DATE 08-27-06	
CONTRACT NO.		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.010 3 PLACE DECIMALS ±.005 ANGLES ±.5°		
DART AEROSPACE		
AS350 CABLE CUTTERS KIT		
SHEET B	CAGE CODE 07MA26	DWG. NO. 646.4000
SCALE NONE		REV. C
		SHEET 4 OF 5

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES
DRA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT
WRITTEN PERMISSION OF APICAL INDUSTRIES DRA DART AEROSPACE IS PROHIBITED.



DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

OFFICIAL DATE (MM/DD/YY) 08/27/08		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY S. HUT	CHECKER P. BLAYD	DART AEROSPACE APICAL INDUSTRIES, INC. (DRA DART AEROSPACE)	
DRAWING APPROVAL P. BLAYD			
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DIMENSIONS ±.010 3 PLACE DIMENSIONS ±.005 ANGLES ±.5°			
SHEET B	CAGE CODE 07M26	DWG. NO. 646.4000	REV. C
SCALE NONE		SHEET 5 OF 5	

9-69
28
DAG

NOTES:

- B

0.5304

D

				2		2	41	601.2829	SCREW	MS24694556
				2		2	40	601.2831	RIVET	MS20426AD5-7
				1		39	646.3716	GAUGE BRACKET		
				6		6	38	601.1953	SCREW	MS27029-1-1/2
			2			2	37	646.3715	STRUT DOUBLER	
			2			2	36	601.2824	BOLT	AN3-5A
12	36					36	35	601.2277	RIVET	CCP24MS302
6	18					18	34	600.0795	NUTPLATE	MS27047-3
3	3					3	33	601.2565	RIVET	MS270470AD5-7
1	1					32	646.3813	STRUT BRACKET		
4	4					4	31	601.2822	BOLT	AN3-3A
2	2					*2	30	646.3812	GUSSET BRACKET	
8	8					8	29	601.2564	RIVET	MS20470AD5-6
1	1					*1	28	646.3714	GUSSET	
						1	27	646.3610	FILLER	
						3	26	601.2830	SCREW	MS24694555
						2	25	601.2825	BOLT	AN3-6A
						1	24	646.3811	RADIUS BLOCK	
						1	23	646.3712	CLIP	
						1	22	646.3711	CLIP	
8	8					8	21	601.2832	RIVET	MS20470AD5-6.5
14	14					14	20	601.2020	RIVET	CR3213-5-3
4	6	4	6			10	19	601.2823	BOLT	AN3-4A
						1	18	601.2827	BOLT	AN3-19A
						5	17	601.2912	SCREW	MS224694251
						1	16	646.3713	GUSSET	
						1	15	646.3210	SUPPORT	
						1	14	646.3710	DOUBLER	
						*1	13	646.3110	CHANNEL	
14	10	8	53	6	61	12	601.1624	LOCKNUT	MS27042-3	
16	32	18	120	16	144	11	601.1607	WASHER	MS114PFC3232P	
						10	646.3410	LH WIPER DEFLECTOR		
						9	646.3411	RH WIPER DEFLECTOR		
						2	8	647.7703	STRUT ASSY	
						2	7	647.0112	STRUT BRACKET	
						1	6	646.3511	STRUT	
						1	5	646.3510	STRUT	
2		2				2	4	646.3810	BRACKET	
						1	3	646.2910	DEFLECTOR	
						1	2	646.3001	LOWER CUTTER ASSY	
						1	1	646.3301	UPPER CUTTER ASSY	
X								646.4006	LOWER CUTTER FIRED PROVISIONS	
	X							646.4005	LOWER CUTTER REMOVABLE PROVISIONS	
		X						646.4004	FIXED PROVISIONS P11	
			X					646.4003	CABLE CUTTERS KE WITHOH R14D PROVISIONS	
				X				646.4002	A3350 WIPER DEFLECTOR K11	
					X			646.4001	A3350 CABLE CUTTERS K11	
4006	4005	4004	4003	4002	4001	FIND #	PART #	DESCRIPTION	MAT#	SPEC#

QTY		PARTS LIST		UNIT PRICE	
NEXT ASSY (5)		ORIGINAL DATE (MO/DA/YR) 08/27/06 ORDERED BY S: NJFF P: BRAVO DRAWING APPROVAL P: BRAVO 08/27/06 ORDER PARTIAL NO.		DART 3030 ENTERPRISE CT., SUITE A VISTA, CA 92081 (760)-724-5300 (760)-724-5300 FAX (760)-724-5300	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 1. PLACE DIMENSIONS 2. PLACE DIMENSIONS 1.0005 3. PLACE DIMENSIONS 1.0005 4. PLACE DIMENSIONS 1.0005		1/2	B	AS350 CABLE CUTTERS KIT B CASE CODED R 02M165 646.000 SCALE NONE 1.0000 1.0000	

Work Order ID 163677

163677

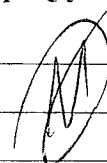
Page 1

Wednesday, July 05, 2017 3:19:19 PM

Item ID: 646.4001 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: AS350 Cable Cutter System

Start Date: 7/17/2017 Start Qty: 1.00 *1* Cust Item ID:
 Required Date: 7/24/2017 Req'd Qty: 1.00 *1* Customer:

Reference:

Approvals: Process Plan:  Date: JUL 05 2017 Tooling: Date: Run Start *NR1*
 QC: Date: SPC (Y/N): Date: Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
646.4000	C1								
100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4001								
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.03							
Quality Control									

CB

JUL 17 2017

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number SR02180LA

This Certificate issued to Apical Industries, Inc. dba Dart Aerospace
3030 Enterprise Court, Suite A
Vista, CA 92081

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified herein meets the airworthiness requirements of Part 27 of the Federal Aviation Regulations.*
*Certification basis is set forth in Type Certificate Data Sheet H9EU.

Original Product Type Certificate Number: H9EU

Make: Eurocopter France

Model: AS350 C, D, D1, B, B1, B2, BA, B3

Description of Type Design Change: Installation of a Cable Cutter Kit in accordance with FAA approved Apical Master Document List, MD350-61, Revision A, dated November 25, 2008, or later FAA approved revision.

Limitations and Conditions: The installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. The approval of this modification applies to the above noted aircraft model series only. This approval requires the inspections and overhaul schedules to be performed as mandated by Apical Industries, Inc.'s Instructions for Continued Airworthiness, ICA350-61, Revision N/C, dated November 20, 2008, or later FAA accepted revision. A copy of this STC must be included in the permanent records of the modified aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: May 21, 2008

Date received: August 7, 2014

Date of issuance: December 16, 2008

Date amended:

By direction of the Administrator



Haifa Haj-Eid
(Signature)

Haifa Haj-Eid
Supervisor, Technical and Administrative
Support Staff
Los Angeles Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.